

# DEPARTMENT OF HEALTH AND HUMAN SERVICE PUBLIC HEALTH SERVICE CENTERS FOR DISEASE CONTROL AND PREVE FION

# **Minutes of Meeting**

ADVISORY COMMITTEE ON IMMUNIZATION PRACTICES

October 6-7, 1993

Atlanta, Georgia

# ADVISORY COMMITTEE ON IMMUNIZATION PR CTICES Centers for Disease Control and Preventio Auditorium A October 6-7, 1993

# OCTOBER 6

8:00 AM	Introduction Additional Charge to ACIP	Dr. S. Ka Dr. W. O	nstein
8:30 AM	Varicella Statement	Dr. S. He	nes
10:15 AM	BREAK		
10:30 AM	Review of Antiviral Recommendations for Influenza Update on Status of Licensure of Rimantadine Review of Antiviral Resistance to Amantadine and Rimantadine	Dr. N. A Dr. N. C	e <b>n</b>
11:30 AM	Update on the ACIP Recommendation for Meningococcal Vaccines	Dr. J. W	ger
12:00 AM	LUNCH		
1:00 PM	Emergence of Drug Resistance Pneumococcal Infections in the United States: Need for Aggresive Vaccination Promotion	Dr. R. B	man
1:30 PM	Adverse Consequences of Vaccines Other than Pertussis and Rubella	Dr. K. St Institut	tton of Medicine
2:45 PM	Injury Compensation Update	Mr. T. B NVICP	oier
3:00 PM	BREAK		
3:15 PM	Vaccine Liberalization of Measles Timing of First Dose from 12-15 Months	Dr. L. M	kowitz
4:00 PM	Recommendation for Use of BCG Vaccine	Dr. R. H	bner
5:00 PM	Cost Benefit of Childhood Vaccinations	Dr. S. Ha	er

# ADVISORY COMMITTEE ON IMMUNIZATION PRACT ES Centers for Disease Control and Prevention Auditorium A October 6-7, 1993

# OCTOBER 7

8:15 AM	The President's New Immunization Initiative	Dr. D.A. 1 HHS	nderson
8:45 AM	Update on the National Vaccine Program	Dr. A. Ro NVP	ins
9:15 AM	Simplifying the Schedule Regarding the Third Dose of OPV	Dr. R. Su Dr. P. Wr Vanderb	ht Univ.
10:00 AM	BREAK		
10:20 AM	Need for 4th Dose DTP Vaccine at 15-18 months	Dr. N. Be PHLS, L Dr. J. Ch UCLA Dr. S. Lo St. Chris Dr. P. St Dr. R. Su	don ry  pher's Hosp. pel er
12:00 PM	Summary of FDA Workshops on "Combined Vaccines" and "Harmonization of Reporting of Adverse Events Following Vaccination"	Dr. C. Ha FDA	legree
12:30 PM	Public Comment		
12:45 PM	ADJOURN		

### ATTENDEES:

### COMMITTEE MEMBERS PRESENT National Center for : fectious Dr. Samuel L. Katz, Chairman Diseases Dr. Mary Lou Clements Dr. Nancy Arden Dr. Kathryn Edwards Dr. Joseph Bresee Dr. Neal Halsey Dr. George Carlone Dr. Rudolph Jackson Dr. Nancy Cox Dr. Carlos Ramirez-Ronda Dr. Carmen Deseda Dr. Fred Thompson Dr. Scott Dowell Dr. Joel Ward Penina Haber Dr. Jim Hughes Ex Officio Members Dr. Eric Mast Dr. Carolyn Hardegree (FDA) Helen Regenery Dr. Steven Rosenthal Liaison Representatives David Shay Dr. Marvin Amstey (ACOG) Dr. Pierce Gardner (ACP) National Center for I evention Dr. Caroline B. Hall (AAP) Services Dr. Walter Hierholzer (HICPAC) Rosamond Dewart Dr. Alan Hinman Dr. Edward Mortimer, Jr. (AMA) Dr. Georges Peter (AAP) Dr. Gregory Poland, (AHA) National Immunization Program Dr. David Scheiffle (NACI) Dr. William Atkinson Dr. Bob Chen Dr. Richard Zimmerman (AAFP) Dr. Steve Cochi Acting Executive Secretary Dr. Vance Dietz Dr. Walter Orenstein Judy Gantt Dr. Jacqueline Gindle Dr. Dayla Guris Centers for Disease Control Dr. Steve Hadler and Prevention Dr. Kimberly Heath Dr. Sandra Holmes Dr. Sonja Hutchins Office of the Director Dr. Dixie Snider Dr. Charles LeBaron Dr. Arthur Manoharan Dr. Lauri Markowitz Office of the General Counsel Mr. Kevin Malone Dr. Mark Papania Dr. Mary Reichler Epidemiology Program Office Dr. Peter Strebel Dr. Han Choi Dr. Ray Strikas Dr. Laura Fehrs Dr. F. VanLoon

### International Health Program Office Office of Public Affa :s Anne Sims

Dr. Joe H. Davis

Dr. Walter Williams

### ATTENDEES CONTINUED:

Department of Health and Human Services

Dr. D.A. Henderson

U.S. Public Health Service Mr. Thomas E. Balbier, Jr.

Food and Drug Administration

Julia Barrett
Drusilla Burns
Carl Frasch
Dr. Donna Frasch

Dr. Donna Freeman Karen Goldenthal Dr. Philip Krause

Dr. Margaret Mitrane

Dr. Linda Teague

National Institutes Health Dr. R. Rabinovich

National Vaccine Pro am Dr. Joel Breman

Navy Environmental H .1th Center

Dr. Robert Brawley

Army Surgeon General Office Vincent P. Fonseca

### Others Present

Pamela Adkins, Merck Vaccine Division

Stephan Antonsson, Forest Labs

Dr. Norman Begg, London

Jill Chamberlin, Vaccine Bulletin

Dr. James D. Cherry, UCLA

Dr. Jeff Davis, Wisconsin Department of Health

Dr. Ruth Ann Dunn, Michigan Department of Public Health

Craig Engessen, Lederle-Praxis

Carol Esch, Merck Vaccine Division

John Forro, Wyeth-Ayerst

Steve Frandzel, Medical World News

Carol Frankel, Evans/Medeva

Dr. Anne Gershon, Columbia University

Elizabeth Gorr, Fox, Bennett and Turner

Dan Granoff, Chiron Corp.

Valerie H. Greenwood, Merck & Co., Inc.

M. Elizabeth Halloran, Emory University

Barbara Howe, SmithKline Beecham

Clifton Neil Irby, Christian Science Church

Kenneth Keen, Merck Vaccine Division

Robert Kohberger, Lederle Praxis

Dr. Saul Krugman, NYU Medical Center

Sally Kubertin, Pediatric News

Dr. Diana Lennon, New Zealand Public Health

Dr. Sarah Long, St. Christopher's Children's Hosp., Phila lphia

Lucinda Long, Lederle Praxis

Dan Mahore, Lederle Praxis Biologicals

Wayne Morges, Merck & Co., Inc.

Dr. David Nalin, MRL

Marjorie Nicholls, Forest Labs

### Others Present continued

Lorraine Radick, Lederle-Praxis Biologicals
Anne Rochel, Atlanta Journal and Constitution
Marie Rosenthal, Infectious Diseases in Children
Benjamin A. Rubin, Wyeth
Dr. Stuart L. Scheiner, Forest Labs
Dan Soland, SmithKline Beecham
Dale R. Spriggs, VRI, Inc.
Kathleen Stratton, Institute of Medicine
Barbara Sweeney, NAPNAP
Dr. T. R. Ubertini, North American Vaccine
Jose Viarengo, Argentina Public Health Ministry
Thomas Vernon, Merck Vaccine Division
Ralph Vosdingh, Connaught Laboratories
Diana Wance, Merck
Dr. Jo White, Merck Research Laboratories

### Abstract

At the ACIP meeting convened at CDC on October 6-7, 1993, critiqued ACIP draft statements on varicella, antiviral ac influenza, and outbreak control for meningococcal vaccines on a proposed statement of recommended vaccines and schedu requirement for the ACIP under the Omnibus Budget Reconci] The group voted to alter the measles recommendation more permissive 12-15 month MMR vaccination nationwide; no the current DTP recommendations regarding the fourth dose; recommend giving the third dose of OPV on the same schedul namely, at 6 months of age. A working group was created t respond to a congressionally requested IOM report on adver associated with childhood vaccines. Other discussions and presentations are outlined in the Executive Summary and minutes, below.

mbers its for They voted s--a new ition Act of to allow a to change und to as DTP, evaluate and events

### Executive Summary

On October 6-7, 1993, the Advisory Committee on Immunizati | Practices (ACIP) convened at the Centers for Disease Control and Pre intion (CDC). Dr. Samuel Katz, Chairperson, opened the meeting at 8:00 a 1. on October Dr. Walter Orenstein was Acting Executive Secretary.

Dr. Katz introduced Dr. David Scheifele, the new liaison r for the Canadian National Advisory Committee on Immunizati Hierholzer, standing in for Dr. David Fleming for the Hosp Control Practices Advisory Committee (HICPAC); Dr. Rick Zi the University of Pittsburgh, representing Dr. Ron VanBure American Academy of Family Physicians; Dr. Anthony Robbins National Vaccine Program; and Dr. Gregory Poland, from the filling in for American Hospital Association liaison membe Schaffner.

resentative ; Dr. Walter al Infection erman, from for the from the layo Clinic, Dr. William

ACIP members and liaison representatives introduced themse Following this, the 45-plus members of the audience introd themselves. All members and liaison representatives annoused their conflicts of interest.

'es.

Dr. Orenstein then explained the new Vaccines for Children 'rogram. Under the Omnibus Budget Reconciliation Act of 1993, the A P has the charge to determine the list of vaccines for routine admin children under age 18 who receive vaccine through the Vacc Children Program, along with schedules regarding the appro periodicity, dosage, and contraindications applicable to t vaccines for this program. Dr. Orenstein said the ACIP ne on a proposed list and schedule for pediatric vaccines that recommends. Mr. Kevin Malone, from CDC's General Counsel he would prepare the draft of a motion on such a proposed members could vote.

tration to les for pediatric led to vote ACIP fice, said st on which

### Varicella Statement

Dr. Sandra Holmes, NIP, summarized responses to the revise comprehensive draft on varicella that had been circulated members. Dr. Hardegree announced that the license applica on for varicella vaccine has been submitted to the FDA and that a live review is under way.

Then Dr. Holmes led the ACIP through specific wording about that were still undecided in the ACIP statement. Dr. Katz committee members agreed that the general experience with and inactivated antigens together is that there has not be a interference and that none is anticipated with the varicel though more data and studies are needed. Members agreed w wording. Dr. Holmes asked that any comments about the sug sted tables or other matters be sent to her or Ms. Gloria Kovach in wr :ing by October 27.

key issues sked if .ving live vaccine, h this

Dr. Katz presented the ACIP with a farewell gift, an antiq bell.

### Reye Syndrome Update

Drs. Joseph Bresee and Larry Schonberger, DVRD, NCID, upda d the Committee on surveillance for Reye syndrome.

### Review of Antiviral Recommendations for Influenza

Dr. Nancy Arden, VR, NCID, said that influenza activity ha early this season and that CDC has recommended that vaccin ion programs be completed by the end of October.

Rimantadine was approved for marketing on September 17. T of "ACIP Recommendations for the Prevention and Control of Part II. Antiviral Agents" contains more information on re specific and realistic information on prophylaxis, and mor information on dosage and potential adverse reactions.

new draft nfluenza, stance, more specific

Dr. Nancy Cox, VR, NCID, reviewed international surveillan prevalence of amantadine- and rimantadine-resistant viruse and reviewed the mechanisms of antiviral activity of the two drugs. A was created to handle the wording about the use of rimanta ne with children. Its members are Dr. Clements and Dr. Hall and Dr Freeman from FDA.

for rking group Donna

## Update on the ACIP Recommendation for Meningococcal Vaccin

Dr. Jay Wenger, DBMD, NCID, briefly reviewed changes in th final draft in Part I of the two-part meningococcal ACIP recommendatio if the committee was sure it wanted to retain Part II, whi devoted to outbreak control. The Committee indicated its support" for this section. Dr. Katz urged that all commen draft be returned to Dr. Wenger or Ms. Kovach by October 2

He asked is new and verwhelming on the

### Emergence of Drug-Resistant Pneumococcal Infections in the nited States: Need for Aggressive Vaccination Promotion

Next, Dr. Robert Breiman, BMD, NCID, discussed drug-resist pneumococci. Many feel that once the proportion of resist in a community is higher than 5% for a serious infection, using that drug. If this is true, use of penicillin as a for empiric therapy of pneumococcal infection will soon pa . is probably true for trimethoprim-sulfamethoxazole and ery romycin. There was discussion about the ACIP's publishing an articl on this subject.

t isolates e runs risks imary drug The same in the MMWR

### Adverse Consequences of Vaccines Other than Pertussis and

Dr. Kay Stratton from the Institute of Medicine of the Nat of Sciences updated the committee on a congressionally req on the adverse events associated with childhood vaccines. report and an executive summary of it were released on Sep are now available through the National Academic Press.

nal Academy sted report 'he draft mber 14 and

bella

Subsequent discussion showed that members were concerned a of attributable risk of the adverse consequences, that is fact that denominators were not given and that the frequen occurrences was not stated. A working group was created t report, provide perspective and suggestions for further re advise about what information from the report should be in into warnings and contraindications for vaccines. The gro v's members are Mr. Malone and Dr. Orenstein from CDC and Dr. Ward, Dr Clements, and Dr. Jackson from the ACIP.

ut the lack say, the of such evaluate the arch, and rporated Halsey, Dr.

### Injury Compensation Update

Mr. Tom Balbier of the National Vaccine Injury Compensatio updated the committee on this program to resolve claims re alting from adverse reactions to covered vaccines. The spending author 1988 award payments from the vaccine compensation trust fu | was permanently extended; there is no chance that the excise t : will end. The spending authority for the pre-1988 program has increa and from \$80 million to \$110 million annually.

Program .ty for post-

### Vaccines For Children Program -- Continued

Mr. Malone rejoined the group and distributed a proposed s stement that the ACIP could send forward to the Secretary of HHS regard It was suggested that the foll ring vaccines (see Handout #1). preparations be added to the list: Td, DT, monovalent mea .es, OPV and IPV, combination products (DTP/haemophilus conjugate). Dr for a vote that the provision, as written by Mr. Malone, we the caveat that the ACIP will go through the list of currently recomm ided vaccines very carefully, be considered acceptable to the Committee. The vote was unanimous.

ig current Katz asked

### Vaccine Liberalization of Measles Timing of First Dose fro 12-15 Months

Dr. Lauri Markowitz, NIP, discussed the liberalization of schedule to increase vaccine coverage in young children. the reasons for reconsidering the recommended age of vacci include children down to 12 months, and detailed five sour supporting the early susceptibility to measles of U.S. chi Iren.

measles ne reviewed ition to s of data

She said that the ACIP had three possible actions to consi :r: the recommendations as they are now, pending further data MMR vaccine at 12 and 15 months of age; 2) change the recomended age

1) leave 1 response to

for MMR nationwide to 12 months; and 3) or alter recommend ions to allow a more permissive 12-month MMR vaccination nationwid was unanimous for the third recommendation. Dr. Markowitz ill prepare a succinct summary of her presentation for the MMWR. A pa graph would be added that articulates the ACIP recommendation.

The vote

### Cost Benefit of Childhood Vaccinations

Dr. Steve Hadler, NIP, gave Dr. E. Hatziandreau's summary collaborative work to reexamine the benefits and costs of immunizations. For DTP analyses, \$7 is saved in direct co s for every \$1 spent. For MMR, the direct costs are \$15-\$20 saved for very dollar spent. For polio, almost \$4 is saved for every dollar spe .

CDC/Batelle ildhood

Dr. Katz adjourned the meeting for the day at 5:30 p.m. He opened the meeting again on October 7 at 8:15.

# The President's New Immunization Initiative

Dr. D.A. Henderson, Deputy Assistant Secretary for Health- ience, discussed the President's new immunization initiative, for hich Dr. Henderson has responsibility.

# Update on the National Vaccine Program

Dr. Anthony Robbins discussed personnel changes in the Nat nal Vaccine Program. He announced a new subcommittee, led by Dr. Barr Bloom, to determine future vaccine needs of the country and to enter nto open dialogue with manufacturers. He then briefly discussed hi program's work with CDC, HCFA, and the National Governors Associatio in getting the Vaccines for Children program off the ground.

# Simplifying the Schedule on Third Dose of OPV

Next, Dr. Peter Wright of Vanderbilt University reviewed € .demiology, immunogenicity and long-term antibody persistence data the suggest that OPV3 can be given safely and effectively at 6 months of ac a brief discussion, Dr. Katz asked for a vote of ACIP memb :s about whether they endorsed publishing a recommendation that mal; it the custom to give OPV on the same schedule as DTP, namely, at 2, 4, and 6 months. The motion passed.

Following

### Dates for 1994 ACIP Meetings

Dr. Katz announced the following dates for 1994: February 3-24 and October 19-20. June was still undecided. [Note: June 29 30 has now been agreed upon.] Ms. Kovach will resolve the June dates and inform members.

### Need for a Fourth Dose of DTP Vaccine at 15-18 Months

Dr. Hadler asked the ACIP to consider the need for a fourt at 15 to 18 months of age. Dr. Sarah Long from St. Christ Hospital in Philadelphia discussed DTP immunogenicity; Dr. Strebel, NIP, presented data on effectiveness; Dr. Steve R gave perspectives on the safety of the fourth dose; Dr. N consultant epidemiologist with the Public Health Laborator London, shared the U.K. pertussis experience with a 2-, 3schedule; and Dr. James Cherry from UCLA gave perspectives immunogenicity of pertussis vaccines and perspectives on the U.S. experiences with them.

lose of DTP eter enthal, NIP, man Begg, a Service in 4-month DTP n the U.K. and

Dr. Roland Sutter, NIP, then presented three options for the decide on regarding DTP: 1) make no change in current DTP recommendations; 2) discard the recommendation for a fourt and 3) de-emphasize the fourth dose, but continue with dos boosters. The ACIP members voted unanimously for no change

ACIP to dose of DTP; 4 and 5 as

### Summary of Two FDA Workshops

Dr. Hardegree read a summary on the International Workshop Vaccines and Simultaneous Administration, prepared by FDA' Burns (Handout #2).

n Combined Dr. Drusilla

Dr. Hardegree also summarized CEBR's "Harmonization of Rep Adverse Events Following Vaccination, " held the week befor and sponsored by NIH, NVPO, WHO and others. Some national and surveillance programs have been started or are being s

ting of in Bethesda onitoring up.

Dr. Katz invited public comments; there were none. He the everyone and adjourned the meeting at 12:25 p.m.

thanked

A summary of agreed-upon actions follows the full minutes. 6-7, 1993, the Advisory Committee on Immunization Practice convened at the Centers for Disease Control and Prevention discuss the status of numerous vaccine-preventable disease related issues. Dr. Samuel Katz, Chairperson, opened the 8:00 a.m. on October 6. Dr. Walter Orenstein was Acting E Secretary.

On October (ACIP) CDC) to and vaccineeting at cutive

Dr. Katz introduced Dr. David Scheifele, the new liaison r for the Canadian National Advisory Committee on Immunizati Hierholzer, standing in for Dr. David Fleming for the Hosp al Infection Control Practices Advisory Committee (HICPAC); Dr. Rick Zi the University of Pittsburgh, representing Dr. Ron VanBure American Academy of Family Physicians; Dr. Anthony Robbins National Vaccine Program; and Dr. Gregory Poland, from the layo Clinic, filling in for American Hospital Association liaison membe Dr. William Schaffner.

resentative .; Dr. Walter erman, from for the from the

ACIP members and liaison representatives introduced themsel Following this, the 45-plus members of the audience introdu themselves. It was an extensive group, including represent tives of vaccine manufacturers, academia, state and federal governme t agencies, and churches.

Dr. Orenstein, head of the National Immunization Program, a nounced that Executive Secretary Dr. Claire Broome had had a baby boy. there would be new seating arrangements at the next meeting he asked for members and liaison representatives to announconflicts of interest. Regardless of conflicts, all member participate in discussions; however, a person with a confl participate in a vote.

also said Finally, any may t cannot

Dr. Katz reported his group is doing work with Lederle-Pra recombinant vaccine; hepatitis A vaccines from Merck; and vaccines from Genentech, Microgenesys, and Biocine. Dr. M Clements is also involved in HIV vaccine trials, involving produced by Chiron, Genentech, Virogenetics, Pasteur-Merie United Biomedical Incorporation. She also serves as a con Microgenesys and Virus Research Institute. Dr. Neal Halse conducting vaccine studies involving vaccines from Connaug Beecham, Merck, and Lederle-Praxis, and has received suppo conferences from SmithKline Beecham. Dr. Ted Mortimer is to Lederle-Praxis on acellular pertussis vaccine. Dr. Pol research group receives some research support money from C Merck, and Johnson & Johnson Pharmaceuticals. Dr. Scheife vaccine evaluation center that has projects funded by Conn and SmithKline. Dr. Joel Ward currently has research supp Connaught, Merck Sharp & Dohme, and SmithKline Beecham. Dr. Kathy Edwards has received funding from vaccine studie Connaught, Merieux, Lederle-Praxis, SmithKline Beecham, an is a consultant for Institute Merieux and for SmithKline F

s with HIV th HIV y Lou accines , and the ltant for is , SmithKline to attend consultant d's vaccine naught, directs a ght, Lederle t from

from Evans, and cham.

Dr. Orenstein then explained the new Vaccines for Children Under this program, the federal government will purchase a for children who are on Medicaid or are Medicaid-eligible, have no insurance, and Native Americans. In addition, chi served by federally qualified health centers can receive f if their private insurance does not cover immunizations. of this program to the ACIP is that, under the Omnibus Buc Reconciliation Act of 1993, the ACIP has the charge to det list of vaccines for routine administration to children ur receive vaccine through the Vaccines for Children Program, schedules regarding the appropriate periodicity, dosage, a 1 contraindications applicable to the pediatric vaccines for this program. This program is to begin October 1, 1994.

'rogram. . vaccines :hose who lren who are e vaccines ne importance at. mine the er age 18 who along with

Dr. Orenstein said the ACIP needed to vote on a proposed : 3t and schedule for pediatric vaccines that the ACIP recommends ; process of public comment can begin. Final votes would be taken at the

February ACIP meeting. Mr. Kevin Malone, from CDC's Gene: | Council, said this is the first time CDC has had to deal with an ac isory committee becoming an operational one. He said he would | spare the draft of a motion on such a proposed list for members to te on at this meeting.

### Varicella Statement

Dr. Sandra Holmes, NIP, then discussed the process by which ACIP varicella statement was produced. She then introduce of the Varicella Working Group (Drs. Edwards, Peter, Mort: er, Van Buren, De Buono, and Hall. Dr. Anne Gershon was consultar working group).

the proposed the members to the

Dr. Holmes then summarized the 12 responses to the revise comprehensive draft circulated to the entire ACIP. The key issues were

--routine immunization with catch-up immunization was favored by 10 of 12 respondents.

--age for routine immunization preferred 12-18 month --age for catch-up immunization preferred 2-12 years

Nine respondents were also in favor of immunizing health- re workers (HCWs). Six respondents favored immunizing family member immunocompromised patients. Dr. Hardegree announced that application for varicella vaccine has been submitted to to FDA and that active review is under way.

he license

Then Dr. Holmes led the ACIP through specific wording abo issues. After discussion of this vaccine's simultaneous with other vaccines (pp. 17-18 of the draft), Dr. Katz as committee members agreed that the general experience with and inactivated antigens together is that there has not b interference and that none is anticipated with the varice though more data and studies are needed. Members agreed wording. Other suggestions regarding the draft ACIP stat

these key ministration d if iving live a vaccine, th this ent were:

--drop the term "physician-documented" for documenta on of chickenpox, substituting "a clear or reliable histor --for recommendations for conditions requiring stero therapy (asthma), reword to avoid negativity and to add a st acyclovir and check the 1-mg/kg dose of prednisone f with other ACIP documents, which use 2 mg/kg/day as immunosuppression.

ement on consistency dicating

--for recommendations for children on aspirin for rh matoid arthritis, a small plurality voted to keep in the st 29 about adverse experiences but to drop the introdu "Although" and to soften the statement about avoidin use of salicylates for "6 weeks" to "4 weeks."

ement on p.

Regarding the adult and adolescent target groups (p. 20), was suggested that:

--a heading for HCWs be created; a table at the end o highlight HCWs; breakthrough infections need to be di vaccinated HCWs who are exposed; varicella immunizati recommended for HCWs in contact with susceptible preg and that the latex agglutination test, which is a fas test, be re-mentioned here.

the document ussed for be nt women; antibody

--international travelers be dropped from the list of arget groups.

--add that varicella immunization may be considered f normal adults without a history of chickenpox.

--indicate that nonpregnant women of childbearing age e "asked about their varicella history, "not screened, as stat . Also, such women should be advised to avoid pregnancy for " month, " not 3 months, as stated.

--correct the typographical error (<1%) about the inc ence of febrile seizures after vaccination on page 23.

Regarding the statement's treatment of VZIG, the following uggested changes were made:

-- In the discussion of pregnant women (pp. 34-35), ba nce the statement about risks of serious complications by ind ating that there are data that show none.

--In the discussion of hospital personnel (pp. 35-36) that we don't have the data for varicella but clarify he role and suggested timing of immune globulins.

indicate

Finally, Dr. Holmes asked that any further comments about e suggested tables or other matters be sent to her or Gloria Kovach in riting by October 27.

Before a break, Dr. Katz presented the ACIP with a farewel gift: an antique bell from New Hampshire, engraved with "May the AC" recommendations always ring clearly." He gave it to Glori to ring at the end of breaks.

### Reye Syndrome Update

Dr. Larry Schonberger, DVRD, NCID, asked Dr. Joseph Bresee o update the Committee on surveillance for Reye syndrome. Dr. Bresee s d published surveillance information for 1991 indicated 15 cases natio 'ide. Dr. Schonberger said that occasional rare cases of the syndrom associated with bismuth subsalicylate or with long-term aspirin thera of rheumatoid arthritis are reported to CDC, but he did not reall that any of the rheumatoid arthritis cases were associated with var ella.

### Review of Antiviral Recommendations for Influenza

Dr. Nancy Arden, VR, NCID, said that influenza activity ha early this season (e.g., three outbreaks since mid-August and numerous reports of flu-like illness in Ohio and other that CDC has recommended that vaccination programs be comp end of October.

1 Louisiana :tates) and ted by the

Rimantadine was approved for marketing on September 17. of "ACIP Recommendations for the Prevention and Control of Part II. Antiviral Agents" contains more information on re specific and realistic information on prophylaxis, and mor information on dosage and potential adverse reactions.

new draft influenza, .stance, more specific

Dr. Nancy Cox, VR, NCID, then reviewed international surve .lance for prevalence of amantadine- and rimantadine-resistant viruse the mechanisms of antiviral activity of the two drugs. Les influenza viruses isolated from individuals with no known amantadine or rimantadine are resistant to these drugs. I viruses have been isolated in certain clinical situations rimantadine or amantadine have been used for treatment and The likelihood that a new subtype or new variant of type A virus with resistant M2 protein would emerge is not very 9 Continued studies are needed to determine if the frequency resistance of naturally occurring flu viruses increases wi increased use of antivirals.

and reviewed than 1% of posure to ig-resistant iere prophylaxis. .nfluenza eat. of antiviral 1 the

It was suggested that the paragraph on pharmacology on p. be dropped. In response to questions, Marjorie Nichols fi Laboratories, the company that has brought rimantadine to said that the cost of rimantadine will be \$29, vs. \$20 for amantadine. The generic costs are \$15 and \$10, respectively.

of the draft 1 Forrest ne market,

There was then considerable discussion about the negative regarding the use of rimantadine for children when it's cl than amantadine. Donna Freeman from the FDA said that rev are aware that this is confusing and illogical. The pedia sic indications are under active consideration with the manufa curer, but there are not enough data to support rimantadine for treat ant of children. ACIP members wanted to soften the wording for i ; use in children but were unsure if the ACIP should recommend some ning that the FDA doesn't. Finally, Dr. Arden asked for the appointment of a working group to resolve such issues. Its members are Dr. Clement and Dr. Donna Freeman from FDA.

ording arly safer wers at FDA and Dr. Hall

# Update on the ACIP Recommendation for Meningococcal Vaccin

After noting that the ACIP statement on Hib was now being Jay Wenger, DBMD, NCID, briefly reviewed changes in the f: al draft in Part I of the two-part meningococcal ACIP recommendation.

rinted, Dr.

### Injury Compensation Update

Mr. Tom Balbier of the National Vaccine Injury Compensati updated the committee on this program to resolve claims I adverse reactions to covered vaccines. Several recent le amendments favorably affected this program. One result v ; that the spending authority for post-1988 award payments from the compensation trust fund was permanently extended; there i that the excise tax will terminate again. There has also seen an increase in the spending authority for the pre-1988 progr 1, from \$80 million to \$110 million annually. He said that awards pa totaled \$110.4 million. The accumulated, prospective exc collections exceed \$600 million.

ulting from .slative no chance l in 1993 se tax

### Vaccines For Children Program -- Continued

Mr. Malone rejoined the group and distributed a proposed the ACIP could send forward to the Secretary of HHS regai vaccines (see Handout #1). It was suggested that the fol preparations be added to the list: Td, DT, monovalent me IPV, and combination products (DTP/hemophilus conjugate). if combination products needed to be listed separately. that he would think "any combination thereof" could be us that he would look into answering this. In discussion, ; not to add the varicella vaccine until licensure was appr

:atement that ing current wing ;les, OPV and It was asked :. Malone said 1 instead, but was decided red.

Dr. Katz asked for a vote on the proposal, as written by with the caveat that the ACIP will go through the list of recommended vaccines very carefully, be considered accept Committee. The vote was unanimous in favor of the motion

:. Malone, currently ole to the

# Vaccine Liberalization of Measles Timing of First Dose to 12-15 Months

Next, Dr. Lauri Markowitz, NIP, discussed the liberalizat measles schedule. She named the reasons for reconsidering recommended age of vaccination to include children down age: 1) it would provide a chance to increase coverage ; missed opportunities; 2) there is now a large amount of earlier measles susceptibility of children born to vacci 3) the two-dose measles schedule now used in the United | the importance of small differences in response to vacci 15 months of age. She also reminded the group that vacc months is already recommended in some populations.

on of the the 12 months of 1 to eliminate ta indicating ted women; and ates decreases tion at 12 and ation at 12

She briefly reviewed five sources of data supporting the susceptibility to measles of U.S. children: measles sur data indicating changing measles antibody titers in U.S. measles antibody titers in infants; increased risk of me les disease in infants born to younger women; and data on response to m Regarding the last point, Dr. Markowitz said that CDC's

arlier illance data; omen; changing sles vaccine. st estimate of

responses to measles vaccination at 12 months is 93%; it i among 15-month-olds. Almost all children who do not respo first dose of measles vaccine will respond to the second (

97%-99% i to the

Dr. Markowitz said that the ACIP had three possible action 1) leave the recommendations as they are now, pending furt response to MMR vaccine at 12 and 15 months of age; 2) cha recommended age for MMR nationwide to 12 months; and 3) or recommendations to allow a more permissive 12- to 15-month vaccination nationwide. When Dr. Katz asked for a vote i unanimous for the third recommendation. Dr. Katz then asl Markowitz to prepare a succinct summary of her presentation MMWR. A paragraph would be added that articulates the AC] recommendation.

to consider: er data on re the ilter **IMR** was l Dr. for the

### Cost Benefit of Childhood Vaccinations

Dr. Steve Hadler, NIP, gave Dr. E. Hatziandreau's summary collaborative work to reexamine the benefits and costs of immunizations. That study is updating earlier cost-benefi filling in gaps from new studies, and using similar method .ogies for all the vaccines. Complete or preliminary data are now av DTP, MMR, and OPV. For DTP analyses, the bottom line is t it for every \$1 spent, \$7 is saved in direct costs for health care. For direct costs are \$15-\$20 saved for every dollar spent. For almost \$4 is saved for every dollar spent. When indirect considered, cost benefit increases substantially for each

: CDC/Batelle ildhood studies, .lable for MMR, the polio, sts are also iccine.

Dr. Katz adjourned the meeting for the day at 5:30 p.m.

Dr. Katz opened the meeting on October 7 at 8:15.

### The President's New Immunization Initiative

Dr. D. A. Henderson, Deputy Assistant Secretary for Health Science, discussed the President's new immunization initiative, for Henderson has responsibility. Although the United States immunization program for 30 years, our immunization status is second only to Haiti in the Americas as the poorest immunization preschool children. He emphasized that the commitment of the fact that he has made immunization a presidential init huge boost--and probably half the battle, in turning such rates around. He said that the initiative has a provision developing registries for tracking immunization.

which Dr. is had an overage for ne President, itive, is a isatisfactory

He then outlined the precise goals of the new initiative. major one is to reduce vaccine-preventable disease occurre major new emphasis will be placed on surveillance with car investigation and confirmation of vaccine-preventable dise target for most diseases is zero indigenous cases, except mumps, and hepatitis B.

The first and :e. Thus, a :u1 ses. The or pertussis,

The second set of goals relates to coverage. In the Year 90% immunization coverage by age 2 years by the year 2000 Dr. Donna Shalala, Secretary of Health and Human Services, indicated that this goal is unsatisfactory. Ninety percen 2-year-old children by 1996 would be satisfactory. By 90% meant 90% coverage by each of the individual antigens. doses each of DTP, OPV, and Hib vaccine and 1 dose of MMR

00 plans, s the goal. as clearly coverage of overage is includes 3 ccine.

Since there were no CDC data surveys of immunization cover to 1991, this will not be easy. In 1991, the National Cen Statistics undertook a Health Interview Survey, which foun rates of 82% for measles, 69% for DTP3, and 53% for OPV-3. not yet any data on Hib or hepatitis B. Nor are the data state. Beginning in January 1994, the survey data will be review of individual records. In addition, contracted ran dialing surveys will provide state-by-state data by 1994. stratified system for sampling in cities -- using census and tract data and developed in the 1960s -- will be rejuvenated metropolitan areas undertake their own immunization covera : surveys.

e from 1985 r for Health coverage There are vided by onfirmed by m-digit-'inally, a ocioeconomic o help

A third set of goals has to do with publicity and consciou less raising. In terms of specific activities, HHS plans to undertake ar extensive publicity and consciousness-raising campaign. The Initiat 'e has been inundated by various private sector and volunteer groups v ) are anxious to participate (e.g., McDonald's, Kiwanis, Rotary, Junior Disney). He is working to present a comprehensive package of simple messages to raise the consciousness of parents about the i immunization.

ague, Walt portance of

Fourth, health-care providers, who tend to be complacent a immunization, also need to be involved. Right now, survey only 70% of young children who go to HMOs--where immunizat paid for -- are fully immunized. Many physicians put it of children will be immunized at school entry anyway.

show that ons are fully feeling the

Dr. Henderson cited the innovative methods to boost immun: employed by the United Kingdom, where immunization has nev mandatory. Immunization levels had hovered around 60%. bonuses were awarded to any physician who achieved a cover 70% for the children on his panel--and \$3000 if the rates coverage rates rose within several years to 92%-96% rates different antigens. He said he was sure the United States could accomplish this high level of coverage.

ation r been en \$1000 ge rate of ose to 90%-or the

NVP is also considering audits of HMOs, contacting insura e companies to get them to cover immunizations (for example, the insuto Merck wasn't covering immunization until recently). A insurance programs under the federal employee health bene immunization insurance; a year from now, it will be first coverage.

nce provider a result, all t now offer ollar

Finally, Dr. Henderson pointed out that CDC's Division of is now the National Immunization Program, reporting direct Director. He added that Dr. Kenneth Bart, who has been he National Vaccine Program, is shifting to the Office of Int Health in Washington, D.C., where his prime interests lie. Robbins is now head of the National Vaccine Program Office Rabinovich, Dr. Joel Breman, and Mr. Rick Leach (head of I relations for the Children's Immunization Initiative) are the staff, now located at Room 730E, 20201 Hubert Humphrey

munization r to the CDC ling up the mational Dr. Anthony Dr. Gina olic lso joining Building.

Dr. Henderson summarized by saying he thought the country excellent chance of reaching 90% immunization coverage by establishing thereby a system to introduce other antigens appropriate manner. If we cannot reach that goal--provid: simplest, most cost-preventive measure in the health-care of children--it raises the question of whether we could do any other preventive health care satisfactorily. In this sense, it test of every health system.

id an 396, 1 an r the stem to 90% 3 a litmus

### Update on the National Vaccine Program

Dr. Anthony Robbins then discussed personnel changes in tl Vaccine Program. He announced a new subcommittee of the Vaccine Advisory Committee, led by Dr. Barry Bloom, to det rmine future vaccine needs of the country and to enter into open dialog manufacturers. Dr. Robbins wants one or more members of | > ACIP to participate on that subcommittee.

ational

He then briefly discussed his program's work with CDC, HC , and the National Governors Association in getting the Vaccines for Children program off the ground.

In follow-up discussion on Dr. Henderson's and Dr. Robbin presentations, Dr. Henderson said that as far as prioriti childhood immunization in the United States are concerned stand out: adult immunization and global initiatives, su participation in the global effort to eradicate polio and the global Children's Vaccine Initiative. He also said h activities to be added within 2 or 3 years. Dr. Henderso encouraged to stimulate insurance companies to cover adul and HMOs to increase coverage of adult immunizations as w Robbins acknowledged that recordkeeping is a real problem National Vaccine Program is encouraging the Robert Wood J Foundation and others to provide grant support for innova to develop registries and data systems to help with this. said that hepatitis B would be incorporated into the Vacc es for Children Program and into the Childhood Immunization Init However, the targeted coverage rate for 1996 would be 70% vaccine, not 90%.

beyond two areas as nvolvement in expected such was also immunizations 1. Dr. but that the nson ve projects Dr. Orenstein tive. or this

better protection against mild disease with four doses; pi :ection looks similar for more severe disease. An analysis using data 1 supplementary pertussis surveillance system does suggest 1 protective efficacy among children who received four doses absolute increase in efficacy was 5%, from 86% (3 doses) 1 doses).

The 91% (4

Dr. Steve Rosenthal, NIP, discussed what adverse events as with the fourth dose of DTP and examined whether, if any, severity or frequency from those following other doses. primarily febrile seizures -- following DTP4 vaccination we: more frequently compared with doses 1-3. In the Vaccine Reporting System (VAERS), seizures following DTP administe months of age are reported more frequently compared with the first year of life. Estimated coverage for DTP4 is le compared with 69% for DTP3, from the 1991 National Health Therefore, rates of seizures temporally associate are likely to be higher. However, the peak incidence of seizures in children corresponds with the recommended age administration. Reports of these and other adverse event associated with vaccination at 15-24 months of age should the use of acellular pertussis vaccine increases. VAERS these trends.

associated hey differ in izures -reported verse Events ed at 15-24 P given in er: 44% nterview with DTP4 brile f DTP4 temporally ecrease as 11 monitor

Dr. Norman Begg, a consultant epidemiologist with the Pub Laboratory Service in the United Kingdom, summarized the that country with the pertussis schedule, which is three 2. 3. and 4 months of age. He said that 93% of U.K. chil immunized with DTP. He said that their concern is that t doses provide reasonable protection, they may not really that the country is "getting away with it" because of "na from epidemics in the seventies and eighties. The countr exploring the immunogenicity and safety of giving a fourt instituted, it will be with an acellular vaccine.

c Heath perience of ses, given at en are ugh three enough and .ral boosting" is now dose. If

Dr. James Cherry from UCLA said the United States has the immunization program in the world as far as pertussis is presented data from two antibody studies showing that ar drop off rather markedly after the third dose. Were the to give up the fourth dose of DTP, he said that pertussis by 17% in 2- to 4-year-olds, and there will be 2,000 add: Of these, 10% will have a sibling under 6 months of age v immune, perhaps leading to 160 cases in this age-group. cases in this age-group get admitted to the hospital, hos costs alone would increase by \$1 million a year.

est oncerned. body levels nited States vill increase ional cases. ) is not ince 70% of italization

In terms of the epidemiology of pertussis in the United : ates, Dr. Cherry said that pertussis is very common in the populat: all being exposed every day in the United States to it. studies indicate widespread infection. In short, he fel the United

n and we are JA antibody

### Summary of Agreed-Upon Actions

- Dr. Jay Wenger said he would look into circulating P t II of the draft ACIP statement on meningococcal disease to the merican College Health Association.
- 2. ACIP members and liaison representatives are to retue comments on the draft ACIP varicella statement to Dr. Holmes or . Kovach by October 27.
- 3. ACIP members and liaison representatives are to retu comments on the meningococcal draft ACIP statement to Dr. Wenger r Ms. Kovach by Oct. 27.
- 4. Mr. Malone will look into whether each combination v cine needs to be listed on the ACIP-provided schedule of vaccines or the Omnibus Budget Reconciliation Act).
- 5. Dr. Markowitz will prepare a succinct summary of her resentation on changing the recommended age for the first dose c MMR to 12-15 months so that it can be combined with a paragraph a iculating ACIP's recommended change and published in the MMWR.
- 6. Ms. Kovach is to resolve the best date for the June 94 meeting and notify members.